

HIGH SPEED COMMUNICATION FOR MEASUREMENT WHILE DRILLING

ABSTRACT

A communication system for communication with a downhole tool comprising: a first communication transceiver in a first tool for measurement while drilling and a second communication transceiver in at least one of the first tool, a second tool for measurement while drilling, and an external instrumentation interface. The communication system also includes a bus system comprising a first conductive connection and a second conductive connection in each of the first tool and at least one of the first tool, a second tool and an external instrumentation interface, said first conductive connection and the second conductive connection of the first tool in operable communication with the first communication transceiver and the first conductive connection and the second conductive connection of the at least one of the first tool, a second tool and an external instrumentation interface also in operable communication with the second communication transceiver.